

**PROGRAM ASSESSMENT RATING TOOL (PART)
SUPPLEMENTAL INFORMATION**

PART Program	PART Measures	Year Data Available
Goal 1	Clean Air and Global Climate Change	
	<i>Annual Performance Measure</i>	
National Ambient Air Quality Standards Research	Percentage of NAAQS program publications rated as highly cited papers	FY 2008
National Ambient Air Quality Standards Research	Percent progress toward completion of a hierarchy of air pollutant sources based on the risk they pose to human health.	FY 2008
	<i>Efficiency Performance Measure</i>	
Mobile Source Air Pollution Standards and Certification	Percent reduction in time (days) per certificate approval for large engines (non-road compression-ignition engines, heavy duty gas and diesel engines)	FY 2012
National Ambient Air Quality Standards Research	Percent variance from planned cost and schedule.	UD
Toxic Air Pollutants	Tons of pollutants (VOC, NOX, PM, CO) reduced per total emission reduction dollars spent.	UD
Toxic Air Pollutants	Tons of toxicity-weighted (for cancer and non-cancer risk) emissions reduced per total cost (\$).	UD
Goal 2	Clean and Safe Water	
	<i>Annual Performance Measure</i>	
Drinking Water Protection Program	Percent of data for violations of health-based standards at public water systems that is accurate and complete in SDWIS/FED for all MCL and TT rules.	UD
Drinking Water Research	Percentage of research products used by the Office of Water as the basis of or in support of Contaminant Candidate List Decisions.	UD
Drinking Water Research	Percentage of research products used by the Office of Water as the basis of or in support of Six Year Review Decisions.	UD
	<i>Efficiency Performance Measure</i>	
Drinking Water Research	Percent variance from planned cost and schedule.	UD
Drinking Water	People receiving drinking water that meets all	FY 2011

PART Program	PART Measures	Year Data Available
Protection Program, Public Water Supply Systems Grants, Drinking Water State Revolving Fund, Underground Injection Control	applicable health-based standards per million dollars spent to manage the national drinking water program.	
Drinking Water State Revolving Fund	Average funding (millions of dollars) per project initiating operations	FY 2012
Underground Injection Control Grant Program	Dollars per well to move Class V wells back into compliance	FY 2011
Goal 3: Land Preservation and Restoration		
<i>Efficiency Performance Measure</i>		
EPA's Recycling, Waste Minimization and Waste Management Program	Billions of pounds of municipal solid waste recycled per total Federal costs.	UD
Leaking Underground Storage Tank Cleanup Program	Cleanups complete (3-year rolling average) per total cleanup dollars.	UD
Leaking Underground Storage Tank Cleanup Program	Number of annual confirmed UST releases per federal, state and territorial costs.	UD
Goal 4 Healthy Communities and Ecosystems		
<i>Annual Performance Measure</i>		
EPA Human Health Research	Percentage of human health program publications rated as highly cited papers.	FY 2008
EPA Pesticides and Toxics Research	Percentage of SP2 program publications rated as highly cited papers.	FY 2008
EPA Pesticides and Toxics Research	Percentage of SP2 publications in "high impact" journals.	FY 2008
<i>Efficiency Performance Measure</i>		

PART Program	PART Measures	Year Data Available
Brownfields Revitalization	Acres of brownfields made ready for reuse per million dollars.	UD
Global Change Research	Percent variance from planned cost and schedule.	UD
Goal 5	Compliance and Environmental Stewardship	
	<i>Annual Performance Measure</i>	
EPA Enforcement of Environmental Laws (Criminal)	Change in behavior to use Improved Management practices. (criminal enforcement)	FY 2007
EPA Enforcement of Environmental Laws (Criminal)	Pollutant impact.	FY 2008
EPA Enforcement of Environmental Laws (Criminal)	Pounds of pollution reduced, treated or eliminated. (criminal enforcement)	FY 2007
EPA Enforcement of Environmental Laws (Criminal)	Reduction in recidivism (criminal enforcement).	FY 2007
EPA Environmental Education	Number of National Network Environmental Management Studies fellows who pursue environmental careers.	FY 2007
EPA Environmental Education	Percent of all students and teachers targeted demonstrate increased environmental knowledge, as measured by the Guidelines for Learning for K-12, developed by the North American Association for Environmental Education	FY 2008
EPA Environmental Education	Number of states adopting or aligning Guidelines for Learning curricula and standards to state academic standards or number of states developing new environmental education standards based on Guidelines for Learning	FY 2008
EPA Pesticide Enforcement Grant Program	Percent of compliance actions taken as a result of inspection/enforcement. (pesticide enforcement)	FY 2007
EPA Pesticide Enforcement Grant Program	Percent of violators committing subsequent violations. (pesticide enforcement)	FY 2007
	<i>Efficiency Performance Measure</i>	
EPA Enforcement of Environmental Laws (Civil)	Pounds of pollutants reduced, treated, or eliminated per FTE. (civil enforcement)	FY 2007
EPA Enforcement	Pounds of pollutant reduction per FTE. (criminal)	FY 2007

PART Program	PART Measures	Year Data Available
of Environmental Laws (Criminal)	enforcement)	
EPA Environmental Education	Ratio of number of students/teachers that have improved environmental knowledge per total dollars expended.	FY 2008
EPA Pesticide Enforcement Grant Program	Number of enforcement actions taken (Federal + State) per million dollars of cost (Federal + State). (pesticide enforcement)	FY 2007

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- ¹ Areas originally violating NAAQS are based upon 1993-1996 air quality data.
- ² Current air quality violations are based upon 2004-2006 air quality data.
- ³ SIPs for ozone attainment were due to EPA in June 2007 with attainment dates ranging from June 2007 for ozone areas classified as Marginal to June 2021 for areas classified as Severe-17.
- ⁴ SIPs for PM_{2.5} are not due to EPA until April 2008 with required attainment by April 2010. Under certain conditions attainment may be extended until April 2015.
- ⁵ United States Environmental Protection Agency. May 2007. "Asthma Facts." EPA 402-F-04-019
- ⁶ See: <http://www.cdc.gov/asthma/children.htm>
- ⁷ See: <http://www.epa.gov/radon/healthrisks.html>, and United States Environmental Protection Agency. June 2003. "EPA Assessment of Risks from Radon in Homes PDF." EPA 402-R-03-003.
- ⁸ See: <http://www.wipp.energy.gov/>
- ⁹ See: <http://www.epa.gov/narel/radnet/>
- ¹⁰ See: <http://www.epa.gov/radiation/rert/>
- ¹¹ 2006 estimated annual results.
- ¹² Ibid.
- ¹³ The Optimization of Thermal-Optical Analysis for the Measurement of Black Carbon in Regional PM_{2.5} A Chemometric Approach U.S. Environmental Protection Agency Office of Research and Development Washington, DC 20460, EPA 600/R-07/119, August 2007
- ¹⁴ Miller K.A., Siscovick, D.S., Sheppard, L., Shepherd, K., Sullivan, J.H., Anderson, G.L., Kaufman, J.D. (2007). Long-Term Exposure to Air Pollution and Incidence of Cardiovascular Events in Women. *New England Journal of Medicine*, 356(5), 447-458.
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- ¹⁸ Zhang, Q., J. L. Jimenez, et al. (2007). "Ubiquity and Dominance of Oxygenated Species in Organic Aerosols in Anthropogenically-Influenced Northern Hemisphere Mid-latitudes." *Geophys. Res. Lett.* 34, L13801: doi:10.1029/2007GL029979).
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- ²¹ Wade, T. J., R. L. Calderon, E. A. Sams, M. Beach, K. P. Brenner, A. H. Williams, and A. P. Dufour. Can Rapid Measures of Recreational Water Quality Predict Swimming Associated Gastrointestinal Illness? *Waterborne Pathogens AWWA Manual M48*, 2nd, Chapter 31., ENVIRONMENTAL HEALTH PERSPECTIVES. National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, NC, 114(1):24-28, (2006).
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²⁷ Lapointe BE, Barile PJ, Matzie WR. Anthropogenic nutrient enrichment of seagrass and coral reef communities in the Lower Florida Keys: discrimination of local versus regional nitrogen sources. *Journal of Experimental Marine Biology and Ecology* 2004;308(1):23-58.

²⁸ For additional information on Libby, Montana and asbestos, see <http://epa.gov/region8/superfund/libby/>.

²⁹ This publication can be found at <http://www.epa.gov/ada/download/reports/600R05147/600R05147-fm.pdf>.

³⁰ Additional information may be found at <http://www.epa.gov/osa/metalsframework/>.

³¹ <http://www.ehponline.org/docs/2007/10598/abstract.html>

³² <http://yosemite.epa.gov/opa/admpress.nsf/0cd7fdf95b701616852572a000658ef2/77660c0da9fe643e8525733e0065d48b!OpenDocument>

³³ Characterization of Dust Lead Levels after Renovation, Repair, and Painting Activities

<http://www.epa.gov/lead/pubs/duststudy01-23-07.pdf>

³⁴ http://www.epa.gov/lead/pubs/casac_draft_approach_july2007.pdf

³⁵ <http://www.epa.gov/lead/pubs/casac.htm>

³⁶ The Brownfields Program previously reported 1,088 acres ready for reuse in FY05. Further analysis of the data revealed an error in the calculations. The correct number of acres made ready for reuse in FY05 is 759.

³⁷ EPA/600/R-07/013, 2007

³⁸ Henderson, W.M., Weber, E.J., Duirk, S.E., Washington, J.W., and Smith, M.A. (2007) Simplified Method to Quantify Fluorinated Chemicals Using a Selective Ion Scan for Perfluoroalkyl Chain Fragments with GC/MS. *Journal of Chromatography B* 846 (1-2): 155-161

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³⁹ Henderson, W.M., Weber, E.J., Duirk, S.E., Washington, J.W., and Smith, M.A. (2007) Simplified Method to Quantify Fluorinated Chemicals Using a Selective Ion Scan for Perfluoroalkyl Chain Fragments with GC/MS. *Journal of Chromatography B* 846 (1-2): 155-161

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⁴⁰ Kidd, K.A, P.J. Blanchfield, K.H. Mills, V.P. Palace, R.E. Evans, J.M. Lazorchak, and R.W. Flick "Collapse of a fish population after exposure to a synthetic estrogen", *PNAS*, May 22, 2007, vol. 104, no. 21 ,8897-8901.

⁴¹ [http://yosemite.epa.gov/ochp/ochpweb.nsf/content/CEHRC_Findings.htm/\\$file/CEHRC%20Findings.doc](http://yosemite.epa.gov/ochp/ochpweb.nsf/content/CEHRC_Findings.htm/$file/CEHRC%20Findings.doc)

⁴² Furlong, C.E., Holland, N., Richter, R.J., Bradman, A., Ho, A., and Eskenazi, B. 2006. PON1 status of farmworker mothers and children as a predictor of organophosphate sensitivity. *Pharmacogenet Genomics* 16(3):183–190.

⁴³ Sylvan Wallenstein, Jia Chen and James G. Wetmur, Comparison of statistical models for analyzing genotype, inferred haplotype, and molecular haplotype data, *Molecular Genetics and Metabolism*, Volume 89, Issue 3, November 2006, Pages 270-273.

⁴⁴ Barbara L. Harper and Stuart G. Harris, A possible approach for setting a mercury risk-based action level based on tribal fish ingestion rates, *Environmental Research*, In Press, Corrected Proof, Available online 13 July 2007.

⁴⁵ <http://www.mwvcog.org/WillamettePartnership/WillamEcoMarket.asp>

⁴⁶ Bell, M.L., R. Goldberg, C. Hogrefe, P.L. Kinney, K. Knowlton, B. Lynn, J. Rosenthal, C. Rosenzweig, and J.A. Patz, 2007: Climate change, ambient ozone, and health in 50 U.S. cities. *Climatic Change*, DOI 10.1007/s10584-006-9166-7.

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⁴⁸ Wu, S., L.J. Mickley, E.M. Leibensperger, D.J. Jacob, D. Rind, and D.G. Streets, 2007: Effects of 2000-2050 global change on ozone air quality in the United States. *J. Geophys. Res.*, in revision.

⁴⁹ Pollution Prevention (P2) Programs: <http://www.epa.gov/oppt/p2home/index.htm>

⁵⁰ The annual performance measures cited are revised versions of the Program's original FY 2006 performance measures, developed and made retroactive through the program's successful FY 2006 Performance Assessment Rating Tool assessment and included in *EPA's 2006-2011 Strategic Plan*.

⁵¹ Pollution Prevention (P2) Programs: <http://www.epa.gov/oppt/p2home/index.htm>

⁵² The annual performance measures cited are revised versions of the Program's original FY 2006 performance measures, developed and made retroactive through the program's successful FY 2006 Performance Assessment Rating Tool assessment and included in *EPA's 2006-2011 Strategic Plan*.

⁵³ Data available in April, 2007 through NIST survey responses. Green Suppliers Network (GSN): <http://www.greensuppliers.gov>

⁵⁴ Green Chemistry (GC): <http://www.epa.gov/opptintr/greenchemistry/>

⁵⁵ Design for the Environment (DfE): <http://www.epa.gov/opptintr/dfe/>

⁵⁶ This measure counts the number of tribes with Memorandums of Understandings (MOUs), Memorandums of Agreements (MOAs), Tribal Environmental Agreements (TEAs), Performance Partnership Grants (PPGs), or grant eligible "Treatment in a manner similar to a state" (TAS) approvals.

⁵⁷ This measure counts tribes that have TAS approvals, delegations or primacies, Direct Implementation Tribal Cooperative Agreements (DICTAs) or GAP grants with provisions for the implementation of solid waste or hazardous waste activities.

⁵⁸ The total number of tribes receiving GAP grants, TAS approvals or primacies, Direct Implementation Cooperative Tribal Agreements (DICTAs), GAP grants with provisions for the implementation of solid and hazardous waste activities is divided by the annual GAP appropriation (less rescissions and annual set-asides).

⁵⁹ http://es.epa.gov/ncer/science/tse/decade_innovation.pdf

⁶⁰ http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/905/report/0